LOG OF MEETING
OFFICE OF HAZARD IDENTIFICATION AND REDUCTION
SUBJECT: UL 2904 Chemical and Particle Emissions from 3D Printers
DATE OF MEETING: October 6, 2021
LOG ENTRY SOURCE: Treye Thomas (EXHR)
DATE OF LOG ENTRY: December 22, 2021
LOCATION: Teleconference
CPSC ATTENDEE(S): Treye Thomas (EXHR),
NON-CPSC ATTENDEE(S): Contact UL for the attendee list.

Summary of meeting:

The purpose of this standards technical panel (STP) is to review the current UL 2904 standard, discuss comments, and provide recommendations regarding proposed changes. The group began discussing comments regarding the use of chamber studies to characterize and quantify emissions during the printing of a product. CPSC staff posed a question regarding the sampling of particulates produced during printing that may deposit on the floor of the chamber. Research conducted by CPSC staff through interagency agreements with NIST scientists found a gradient of material deposition on the floor of the chamber, and the concentration of the accumulated particles decreased as the researchers sampled the chamber floor away from the printing device. Other STP participants concurred with this observation, and that it may provide critical information regarding the accumulation of particles, but it would not be included in this version of the standard. The standard will focus on air emissions including the capture of volatile organic compounds (VOCs) at steady state concentrations.

Next steps: A meeting was scheduled for October 25 to complete the review of the comments.